	Application No.	Applicant(s)
	Application No.	
Notice of Allowability	10/722,548_	KWOK ET AL.
Notice of Allowability	Examiner	Art Unit
	(Nancy) Thanh-Nhan P Nguyen	2871
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RESERVED OF THE OFFICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RESERVED.	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. This communication is responsive to <u>11/28/2003</u> .		
2. The allowed claim(s) is/are <u>1-9</u> .		
3. The drawings filed on <u>28 November 2003</u> are accepted by the Examiner.		
 Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received:	been received. been received in Application No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
6. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
Advanture and a V		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. Notice of Informal P	atent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary	(PTO-413),
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail Dat	te nent/Comment
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stateme	ent of Reasons for Allowance
of Biological Material	9. Other	

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DETAILED ACTION

- 1. Claims 1-9 are presented for examination.
- 2. Claims 1-9 are allowed.
- 3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - a. Katsuya et al U.S. Patent No. 6,507,381 discloses a liquid crystal display device comprising liquid crystal cell having negative dielectric anisotropy, vertical aligned with pretilt angle of 3° 10°, and twist angle of 0°.
 - b. Minoura et al U.S. Patent No. 6,108,064 discloses a reflective liquid crystal display device comprising liquid crystal cell having negative dielectric anisotropy, vertical aligned with pretilt angle of 3° 30° , twist angle of 120° 170° , and the product of the cell gap d and birefringence Δn of $0.5 1.2 \ \mu m$.
 - c. Yamada et al U.S. Patent Application Publication 2002/0097362 discloses a liquid crystal display device comprising liquid crystal cell having negative dielectric anisotropy, vertical aligned, and twist angle of 90°.
- 4. The following is an examiner's statement of reasons for allowance:

Applicant's claimed invention distinguishes over the prior art for the following reasons. The claims are allowable over the prior art of record because none of the references, either alone or in combination, discloses or renders obvious a liquid crystal display device comprising liquid crystal cell having negative dielectric anisotropy,

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vertical aligned, the pretilt angle gives rise to a preferred twist angle of less than 45°

or larger than 45°, and the product of the cell gap d and birefringence An has a

high value of between 0.5 and 1.1 μm, or 1.0 and 2.2 μm.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to (Nancy) Thanh-Nhan P Nguyen whose telephone

number is 571-272-1673. The examiner can normally be reached on M-F/9-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Robert Kim can be reached on 571-272-2293. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

February 16, 2005

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KENNETH PARKER
PRIMARY EXAMINER